CITY OF MOUNTAIN VIEW

APPLICATION FOR INDUSTRIAL WASTES DISCHARGE PERMIT

Date June 1, 1983 No. —

A. Name or Organization Raytheon Company

Address 350 Ellis Street, Mountain View, CA 94043

Address of Point of Discharge 350 Ellis Street (I.D. South) 415-986-9211 Telephone

Individual Responsible for Industrial Waste — Name M. Ohm, Environmental Coordinator

Signature Manfred Ohm

Attach Map Showing Point of Discharge, Sampling Points, and Waste Treatment Facility

B. Flow Rate: Average 150,000 gals/day Max. 175,000 gals/day Peak Hourly 200 GPM

C. Submit separate statement:

1. Detailing type of industry and nature of products
2. Listing chemicals used and approximate concentrations
3. Describing waste treatment facilities
4. Giving characteristics of exceptional industrial wastes
5. Concerning radioactive wastes
6. Naming organic solvents discharged and concentration at point of discharge

D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.

Biochemical oxygen demand (B.O.D.)	400 mg/l		Grease and oil, total	200 mg/l	
Chemical oxygen demand (C.O.D.)	1,000 mg/l		Hydrogen Ion content pH	5.5/10	
Total Solids, Average	1,500 mg/l		Fluoride	5.0 mg/l	
Suspended Solids, Average	1,000 mg/l		Temperature	120 °F	

	Max. Conc. Allowable mg/l	Allowable Mass Emission Rate kg/day		Max. Conc. Allowable mg/l	Allowable Mass Emission Rate kg/day
Arsenic	0.05		Cyanides	0.5	
Barium	2.5		Formaldehyde	2.5	
Beryllium	0.5		Lead	0.25	
Boron	0.5		Manganese	0.5	
Cadmium	0.05		Mercury	0.025	
Chromium Hexavalent	0.5		Nickel	0.5	
Chromium Total	1.0		Phenols	0.5	
Cobalt	0.5		Selenium	1.0	
Copper	1.0		Silver	2.5	
Cresols	1.0		Zinc	2.5	

NOT TO BE COMPLETED BY APPLICANT

Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions

Maintenance Director — Date

Permit to Discharge Exceptional Industrial Waste Approved

List Details:

Maintenance Director — Date

BROWN AND CALDWELL
CONSULTING ENGINEERS
ANALYTICAL SERVICES DIVISION
1255 POWELL STREET
EMERYVILLE, CA 94608
PHONE (415) 428-2300

Log No. E83-5-27-1

Date Sampled 5/2-3/83
Date Received 5/3/83
Date Reported 5/18/83

Reported To:
Mr. Manfred Ohm
Raytheon Company
350 Ellis Street
Mountain View, California 94042

cc.

Laboratory Director

Log No.	Sample Description
5-27-1	5/2-3/83, 24-hour Composite, 12:30 p.m. - 12:30 p.m., South Effluent
5-27-2	5/2/83, Grab, 12:30 p.m., South Effluent

Concentration: mg/L (unless otherwise indicated)

	5-27-1	5-27-2				
pH (units)	6.1	----				
Biochemical Oxygen Demand	310	----				
Chemical Oxygen Demand	450	----				
Total Solids (percent)	0.15	----				
Total Suspended Solids	11	----				
Temperature °F	58	----				
Oil and Grease	----	< 5				
Fluoride	113	----				
Cyanide	< 0.02	----				
Phenols	9.4	----				
Formaldehyde	0.78	----				
Ammonia Nitrogen (as N)	31	----				
Boron	0.17	----				
Arsenic	0.001	----				
Barium	< 0.4	----				

Mr. Manfre : Ohm
Raytheon Company

Log No. E83-5-27

Date Reported 5-18-83

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Concentration: mg/L

	5-27-1	5-27-2				
Beryllium	< 0.01	----				
Cadmium	< 0.01	----				
Chromium, hexavalent	< 0.01	----				
Chromium, total	< 0.01	----				
Cobalt	< 0.02	----				
Copper	0.01	----				
Lead	< 0.1	----				
Manganese	< 0.01	----				
Mercury	< 0.0001	----				
Nickel	< 0.02	----				
Selenium	0.006	----				
Silver	0.03	----				
Zinc	0.02	----				

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CONSULTING ENGINEERS
ANALYTICAL SERVICES DIVISION
1255 POWELL STREET
EMERYVILLE, CA 94608
PHONE (415) 428-2300

Log No. E83-5-69

Date Sampled 5/5-6/83
Date Received 5/6/83
Date Reported 5/17/83

Reported To:
Mr. Manfred Ohm
Raytheon Company
350 Ellis Street
Mountain View, California 94042

cc.

Laboratory Director

Log No.	Sample Description
9-1	North Effluent, Composite
9-2	South Effluent, Composite

Concentration: mg/L

	5-69-1	5-69-2				
Biochemical Oxygen Demand	244	---				
Fluoride	83	81				

BROWN AND CALDWELL
CONSULTING ENGINEERS
ANALYTICAL SERVICES DIVISION
1255 POWELL STREET
EMERYVILLE, CA 94608
PHONE (415) 428-2300

Log No. E83-5-98

Date Sampled 5/9-10/83
Date Received 5/10/83
Date Reported 5/16/83

Reported To:
Mr. Manfred Ohm
Raytheon Company
350 Ellis Street
Mountain View, California 94042

cc.

Laboratory Director

Log No.	Sample Description
	24-HOUR COMPOSITE
8-1	North Effluent
8-2	South Effluent

Concentration: mg/L

	5-98-1	5-98-2
Fluoride	109	70